| | | | | | | : | Bridge | Inspe | ection | | | | | | | |
|---|----------|-----------------|------------------|-----------|----------|--|----------------|----------------------|--|---------|----------|---------------------------------|-----------------|---|-----------|---------|
| Bridge File Numl | ber | 74228 -1 Bridge | | | | | | | Form Type | | | SG | | | | |
| Year Built/Year | | 1972/1972 | | | | | | Lot | Lot No. | | | 2 | | | | |
| Supstr | | | I | | | Inspector Name | | | Brian Pientsch | | | | | | | |
| Bridge or Town Name GRANDE PRAIR | | | | | | Inspector Class | | | BR CLS A | | | | | | | |
| Located Over 666:02 C1 36.299;WAPITI RIVER 8.10.58.18, WATERCRS-ST | | | ER, | | | Assistant Name | | | | | | | | | | |
| Located On | | | 2 C1 29.678 | | <u> </u> | | | | Assistant Class | | | | | | | |
| Water Body CI./ | /ear | | | | | | | Ins | pection I | Date | | 21-Aug-2012 | 2 | | | |
| Navigabil. Cl./Ye | ar | | | | | | | | Data Entry By Theresa L | | | Theresa Lac | usta | | | |
| Legal Land Loca | | SW | SEC 23 TWP | 70 RGE | E 6 W6 | 6M | | | Data Entry Date | | | 23-Oct-2012 | | | | |
| Longitude, Latitu | | -118 | :48:15, 55:04 | :19 | | | | Re | viewer N | lame | | Eric Carcoux | < | | | |
| Road Authority | | Albe | rta Transporta | ation (Al | T) | | | Re | view Dat | te | | 22-Oct-2012 | - | | | |
| Contract Main. A | rea | CMA | • | <u> </u> | | | | De | pt. Revie | ewer N | lame | David Morris | son | | | |
| Clear Roadway/S | | 9.8 / | -20 deg. (LH | F) | | | | De | pt. Revie | ew Dat | te | 15-Jan-2013 | 3 | | | |
| AADT/Year | | | 0 / 2011 (A) | | | | | Fol | low-Up I | By | | | | | | |
| Road Classificat | on | | -213.4-110 | | | | | | | | | | | | | |
| Detour Length (k | m) | 75 | | | | | | | | | | | | | | |
| Allowable Load (| | gle | CS1 51 GIRDER | | Semi | | S2 56 IRDER | | | Train | | 3 63 RDER | | > On Critical Spans >Critical Member | | ns |
| Design Loading: | 1 | | HS20 | | | | | | I | | | | | > Primary Span | | |
| | | | | | | Po | osting | Infor | mation | | | | | | | |
| Required Vert. C | learar | ice P | osting (m) | UNDE | R: 666 | C1 5. | 4m | | | | | | | | | |
| Posted Vertical 0 | Cleara | nce (` | r/N) | Yes | | | | | | | | | | | | |
| Posted: Lane | EB | C | n Bridge (m) | 5.7 | In Adva | ance | (Y/N) | No | Lane | WB | 0 | n Bridge (m) | 5.7 | In Advance | e (Y/N) | No |
| Remarks | LOCA | TED | UNDER S. S | PAN, RO | DAD U | NDEF | R BRID | GE. | | | | | | | | |
| Required Load P | osting | (t) | | Single | | | | | Semi | | | | Truc | k Train | | |
| Posted Loading | (t) | | | Single | Single | | | | Semi | | | Truc | k Train | | | |
| Posted: | Lane | N | IB | At June | ction (Y | ′/N) | No | | In Adva | ance (` | (Y/N) No | | At Bridge (Y/N) | | No | |
| Posted: | Lane | S | В | At June | ction (Y | ′/N) | No | | In Adva | ance (| Y/N) | No | At Br | idge (Y/N) | No | |
| Remarks | Not re | quire | d | | | | | | | | | | | | | |
| Hazard Marker A | t Brid | ge (Y, | N) Yes | | | | | | | | | | | | | |
| Remarks | | | NE brol | ken off. | | | | | | | | | | | | |
| Other Sign Type | s | | INFOR | MATION | l (nume | erous |) | | | | | | | | | |
| | | | | | | Ut | ilities | Loca | ted at) | | | | | | | |
| Utility Attachmer | its | | | | | | | | | | | | | | | |
| Telephone | Pedes | stal W | . side. | | | | | Ga | s | | | | | | | |
| Power | | | | | | | | | nicipal | | | | | | | |
| Others | | | | | | | | | blem (Y | /N) | Yes | | | | | |
| Remarks | utilitie | s han | ging from brid | dge & or | heads | slope. | | | | | | | | | | |
| | | | | | 1 | | Appro | | | | | | | | | |
| | | | | | | Last | | <u> </u> | Explanation of Condition | | | | | | | |
| Horizontal Alignr | nent | | | | | 5 | 5 | | Intersection with SH 666 at S. end of | | | | | | | |
| Vertical Alignment | | | 5 | 5 | Wid | bridge. Steep grade at N. end. Widens to 3 lanes at ends. | | | | | | | | | | |
| | | | | | | Draining onto | | Draining onto abuts. | | | | | | | | |
| Roadway Width | (m) | | 10.200 | | | | | | | | | | | | | |
| Approach Bump | | | | | | 7 | 7 | | | | | | | | | |
| Guardrail (Y/N) | | | Yes | | | | | Nu | merous a | accide | ent da | mage location drail is dente | ns on | North approa | ch, bot | h sides |
| Guardrail | | | | | | 4 | 3 | _ Sev | veral pos | st loca | tions | with missing | bolts. | • | angrittie | 71 IL. |
| Length (m) | | | 42.000 | | | | | Lar | Large gravel windrows under approach rail. | | | | | | | |
| Current Standa | ard (Y/ | N) | Yes | | | | | | | | | | | | | |
| Termination Type Turned down | | | | | | | | | | | | | | | | |

Alberta Transportation

| | | | | | | Approa | ch Road | | | | |
|---|---------------------------------------|---------|----------|----------------|--------|--------|---|--|--|--|--|
| | | | | | Last | Now | Explanation of Condition | | | | |
| Drainage | | | | | 5 | 3 | NE ditch scoured 70mLx3.6mWx3.7mD at worst locationphoto | | | | |
| Approach Road General Rating | | | | | | 3 | NW ditch scoured 30mLx3mWx1mD. | | | | |
| | | | | | | Supers | tructure | | | | |
| Bridge Comp | onent | | | | | | Explanation of Condition | | | | |
| | | ins, Le | engths(| m): 33.5-48.8- | | | A-Ident Number: A0661-02;A0661-03;A0661-04) | | | | |
| Special Feat | | | <u> </u> | | | | | | | | |
| Special Featu | | | | | | 3 | SE gate chain link pushed back. | | | | |
| (Type :) | | | | | | | SW gate lock missing. Installed lock on NW gate. | | | | |
| Special Featu | ire | | | | | Х | Installed lock off NW gate. | | | | |
| (Type :) | | | | | | | | | | | |
| Wearing Surfa | ace/Deck Top | Detail | Ratings | ; | | | | | | | |
| 0 | N (%) | 1 (%) | | 2 (%) | 3 (%) | | Partially gravel covered. | | | | |
| Last | 30 | | 0 | 0 | | 0 | | | | | |
| Now | 1.0 | | | | | | | | | | |
| Wearing Surfa | ace | | | | 7 | 7 | | | | | |
| | pe : CONCRE | ETE) | | | | | | | | | |
| (Thickness(| · · · · · · · · · · · · · · · · · · · | / | | | | | | | | | |
| Deck Top | | | | | Х | X | | | | | |
| Deck Rideability | | | | | 9 | 9 | | | | | |
| | | | | | | - | | | | | |
| Deck Joints | | | | | 3 | 5 | | | | | |
| Temperatur | | | 20 | | | | Snowplow guards repaired. | | | | |
| | Type : GLAN | | | | | | | | | | |
| | | ATES | | D (SILICON S | EAL)) | | - | | | | |
| Gap Size (n | nm) | | · · · | ocation | | | | | | | |
| 100 | | | South | abut | | | | | | | |
| 20 | | | SP | | | | | | | | |
| 25 | | | NP | | | | | | | | |
| 98 | | | N abu | t | | | - | | | | |
| | | | | | | | | | | | |
| Deck Drainag | е | | | | 7 | 7 | | | | | |
| Drains Clog | ged (Y/N) | | No | | | | | | | | |
| Curbs/Mediar | 1 | | | | 3 4 | | Cracking around post East side center of bridge due to accident. | | | | |
| (Curb Type | : Standard) | | | | | | Curb formwork left in place pier 1 and 4repaired Spall 200mmWx800mmL East, center of bridge span 2repaired | | | | |
| Scaling (Percent Area) 0 | | | | | | | Spall 0.4x0.2 over pier 2. East curb - rebar exposed. | | | | |
| Bridge Rail | | | | | 4 | 3 | Spall 300mmWx1100mmL West side, center of span 2 repaired | | | | |
| (Type : GALVANIZED STEEL BRIDGE TUBE;STEEL TUBE) | | | | | L BRID | GE | Rail bent West side, center of span 2 in two placesphoto | | | | |
| Bridge Rail Posts | | | | | 3 | 3 | Spall 0.3m x 0.7m West side center of span 2photo | | | | |
| | | OST ST | FEEL;G | ALVANIZED | POST | | Vertical tear on bridgerail post on West side of Span 2photo | | | | |
| · · · · · · · · · · · · · · · · · · · | Bridge Rail/Posts Coating | | | | | 7 | | | | | |
| | | | | | 7 | | | | | | |
| Sidewalk | / | | | | Х | X | | | | | |
| | | | | | | | | | | | |

| | | | Supers | tructure | | | | |
|---|---------------------------------------|------------|---------|--|--|--|--|--|
| Bridge Component | | Last | Now | Explanation of Condition | | | | |
| (Primary Span : WG, 5 Spans | , Lengths(m): 33.5-48. | .8-61-48.8 | 8-33.5, | A-Ident Number: A0661-02;A0661-03;A0661-04) | | | | |
| Girder/Beam | | | | | | | | |
| Cover Plate | | X | Х | | | | | |
| Flange | | 4 | 4 | High load damage with bent flanges span 1 | | | | |
| Web | | | 8 | _ | | | | |
| Stiffeners | | 8 | 8 | _ | | | | |
| Splice | | 8 | 8 | _ | | | | |
| Weld | | 8 | 8 | | | | | |
| Diaphragms/Cross Frame | | 8 | 8 | | | | | |
| Paint Condition | | 4 | 4 | 10% paint failure mainly on bottom | | | | |
| (Colour Description : GREE | N) | | | flange area & @ exterior girders @ abuts. | | | | |
| (Colour Code : 14193) | | | | | | | | |
| Touchup Required (Y/N) | Yes | | | | | | | |
| Bearings | | 4 | 4 | One nut missing off anchor bolt NE | | | | |
| Temperature (deg. C) | 20 | | | corner, one anchor is too short NE corner. | | | | |
| (Expansion Type : ROCKER | R BEARING) | | | OUTSIDE GIRDER ROCKER BEARINGS ARE RUSTING @ BOTH | | | | |
| (Fixed Type : PINNED BEA | · · · · · · · · · · · · · · · · · · · | | | ABUT & N & S PIERS P2REPAIRED(REPRINTED) Grout pad deteriorating @ NErepaired | | | | |
| Coating Adequate (Y/N) | Yes | | | | | | | |
| Functioning (Y/N) | Yes | | | | | | | |
| Deck Underside | | 5 | 5 | | | | | |
| Stains (Percent Area) | 1 | | | | | | | |
| Span Alignment Problems | | | | | | | | |
| Vertical (Y/N) | No | | | | | | | |
| Horizontal (Y/N) | No | | | - | | | | |
| Superstructure General Rat | ing | 4 | 4 | | | | | |
| | | | Subst | ructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition | | | | |
| Abutments | | | | | | | | |
| Bearing Seats/Caps | | 6 | 6 | _ | | | | |
| (Type : CONCRETE) | | | | | | | | |
| Backwalls/Breastwalls | | 5 | 5 | | | | | |
| Wingwalls | | 6 | 6 | | | | | |
| Piles | | N | N | | | | | |
| Paint/Coating | | 5 | 5 | | | | | |
| Abutment Stability | | 8 | 8 | | | | | |
| Scour/Erosion | | 5 | 5 | | | | | |
| Piers/Bents | | | | | | | | |
| (Type : PIER-SOLID) | | | | Spall at pier 4 west side. Minor | | | | |
| Bearing Seats/Caps | | | 5 | delamination cracks top of S. pier. | | | | |
| (Type : CONCRETE) | | | | W. side. Lots of graffiti. | | | | |
| | | | | | | | | |
| (Total Number of Rearing Pile | s : 0:0:0:0) | | | | | | | |
| (Total Number of Bearing Pile Pier Shaft/Piles | s : 0:0:0:0) | 6 | 6 | _ | | | | |

Alberta Transportation

| | | | Subst | tructure |
|------------------------------|-------------------|------|---------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| Nose Plate | | 6 | 6 | 100% rust on nose plate. |
| Paint/Coating | | 4 | 4 | |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 7 | 7 | |
| Scour | | 7 | 7 | |
| Debris (Y/N) | No | - | | |
| Substructure General Rating | | 5 | 5 | |
| | | S | Structu | re Usage |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | 40 degree bend u/s. |
| (D/S Direction : E) | | | | |
| Alignment | | 4 | 4 | |
| Bank Stability | | 4 | 4 | Eroding at the SW corner of slope protection. |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | | | | |
| Slope Protection | | 5 | 5 | None @ N. headslope rivulets. |
| (Type : NATURAL; NATURA | AL) | | | Concrete slope protection S. headslope. |
| Guidebank/Spurs | | 5 | 5 | |
| Adequacy of Opening | | 7 | 7 | |
| (Fish Compensation Measure | 1 : NONE) | | | |
| (Fish Compensation Measure 2 | 2 : NONE) | | | |
| Channel General Rating | | 4 | 4 | |
| Grade Separation | | | | |
| Road Alignment | | 5 | 5 | Curves both sides, no passing. |
| Traffic Safety Features | | 4 | 4 | 2 posts pushed out of alignment. |
| Туре | Guardrail | | | |
| Slope Protection | | 5 | 5 | |
| (Type : NATURAL; NATURA | NL) | | | |
| Bank Stability | | 7 | 7 | |
| Drainage | | 7 | 7 | |
| Grade Separation General Ra | ating | 4 | 4 | |

| | | | Maintenance Recommene | dations | | | | | L, |
|---|---------|--------------------|---|------------------------|---------------|------|----------------|-----------|-------|
| Inspector Recommendations | Year | Inspecto | or Comments | Department Co | omments | | Target Year | Est. Cost | Cat # |
| REPAIR/REPLACE BRIDGE RAIL | 2013 | Replace | e bent guardrail and posts. | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | | | |
| RETROFIT BRIDGE RAIL | | | | | | | | | |
| SEAL CURBS | | | | | | | | | |
| PATCH DECK | | | | | | | I | | |
| SEAL DECK | | | | | | | I | | |
| OVERLAY DECK | | | | | | | I | | |
| REPAIR/REPLACE DECK JOINTS | | | | | | | I | | |
| RESET/ PAINT BEARINGS | | | | | | | I | | |
| REPAINT SUPERSTRUCTURE | | | | | | | I | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | I | | |
| WASHING | | | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | 2013 | Armour prevent | North ditches with gabion baskets to further erosion. | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | |
| OTHER ACTION | 2013 | Repair s | palls on East and West sides of S2. | | | | I | | |
| OTHER ACTION | 2013 | Repair a | approach guardrail | | | | I | | |
| OTHER ACTION | 2013 | Reinstal | l hazard markers. | | | | | | |
| OTHER ACTION | 2013 | Repair S | S side catwalk gates. | | | | | | |
| OTHER ACTION | 2013 | Repair g | rout pad and anchor bolt at NE abut. | | | | | | |
| OTHER ACTION | 2013 | Repair for locks X | ence for catwalk and install missing 2. | | | | | | |
| OTHER ACTION | 2013 | Repair/r | eplace damaged bridgerail post. | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 50.0/50 | .0 | Sufficiency Rating (Last/Now) (%) | 43.7/33.4 | Est. Repl. Yr | 2038 | Maint. Red | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | Date | | E | stimated Total | 0 | |
| Proposed Long-Term Strategy | | | | | | | | 1 | |
| | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | |

| Proposed Action | | | |
|-------------------------------------|----------------|---------------------------|-------------|
| | | | |
| Previous Inspector's Name | Brian Pientsch | Previous Assistant's Name | |
| Next Inspection Date | 21-May-2014 | Previous Inspection Date | 26-Nov-2010 |
| Inspection Cycle (Default) (months) | 21 | | |
| Comment | | | |
| | | | |